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Number of Databas	es:			Structure	e		DARC/	Questel	

=> fil hcaplus FILE 'HCAPLUS' ENTERED AT 18:51:28 ON 31 JAN 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

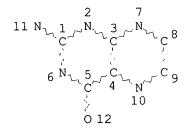
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This file contains CAS Registry Numbers for easy and accurate substance identification.

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NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

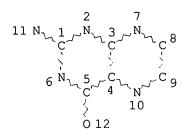
GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 12

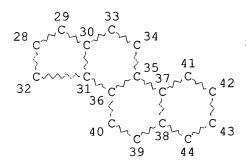
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STEREO ATTRIBUTES: NONE

L14 5245 SEA FILE=REGISTRY SSS FUL L12

L15 STR





NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE

5 SEA FILE=REGISTRY SUB=L14 SSS FUL L15 L16 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L16 L17

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=> d ibib abs hitrn 117 1-3

L17 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:696726 HCAPLUS

DOCUMENT NUMBER: 139:224407

TITLE: Folate-conjugated compns. for treatment of acute

myeloid leukemia by inducing folate receptor-.beta.

expression

INVENTOR(S): Lee, Robert J.; Ratnam, Manohar

PATENT ASSIGNEE(S): The Ohio State University Research Foundation, USA

SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE

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     WO 2003072091 A1 20030904 WO 2003-US5961 20030227
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD,
             RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
             NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
             ML, MR, NE, SN, TD, TG
                                          US 2003-375888
     US 2003170299
                           20030911
                                                            20030227
                     A1
                                       US 2002-360408P P 20020227
PRIORITY APPLN. INFO.:
     The invention provides a method for treating leukemia in a patient. The
    method comprises administering to the patient a substance that increases
     expression of folate receptor-.beta. on leukemia cells in the patient,.
     called a FR-.beta. inducer, and administering a folate-conjugated
     therapeutic that targets the leukemia cells in the patient. The invention
     also comprises pharmaceutical compns. contg. one or both of a FR-.beta.
     inducer and a folate-conjugated therapeutic. The invention also provides
     a kit for use in treating leukemia in a patient, the kit comprising an
     FR-.beta. inducer and a folate-conjugated therapeutic.
     591752-80-6
ΙT
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (folate-conjugated compns. for treatment of acute myeloid leukemia by
        inducing folate receptor-.beta. expression)
                        THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L17 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
                   2000:725435 HCAPLUS
ACCESSION NUMBER:
                        133:301170
DOCUMENT NUMBER:
                        Fusogenic lipids and vesicles for delivery of
TITLE:
                        pharmaceutical agents
                        Leamon, Christopher Paul
INVENTOR(S):
                       Isis Pharmaceuticals, Inc., USA
PATENT ASSIGNEE(S):
                        PCT Int. Appl., 65 pp.
SOURCE:
                        CODEN: PIXXD2
DOCUMENT TYPE:
                        Patent
                        English
LANGUAGE:
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
                          DATE APPLICATION NO. DATE
     PATENT NO.
                 KIND DATE
                     A1 20001012 WO 2000-US9473 20000406
     WO 2000059474
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,
             CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
         ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
             LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
             SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,
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         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                     B1 20020430 US 1999-287175 19990406
A1 20020102 EP 2000-921959 20000406
     US 6379698
     EP 1165047
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
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T2 20021203

JP 2002541089

JP 2000-609038 20000406

US 2003082154 Al 20030501 PRIORITY APPLN. INFO.:

US 2002-81463 20020222 US 1999-287175 A 19990406

WO 2000-US9473 W 20000406

OTHER SOURCE(S):

MARPAT 133:301170

Novel lipid compds. are provided that may be termed "pro-cationic" in that they are neutral or neq. charged until they are either brought into contact with cellular membranes or are internalized by cells. The lipids have a hydrophobic tail group and a hydrophilic head group, the head group incorporating both a pos. and neg. charged region at physiol. pH. The hydrophobic tail group is stably connected to the pos. region of the head group which in turn is connected to the neg. region by a disulfide bond that is susceptible to cleavage by membrane-bound and intracellular factors. Cleavage of the disulfide bond removes the neg. charged region from the head group resulting in a lipid that is cationic and therefore fusogenic with neg. charged cell membranes. Consequently, lipids of the invention are useful as components of liposomes that serve as vehicles for delivering pharmaceutical agents into cells with reduced toxicity. Cholesteryl-[N-[(1-amidonobutyl)aminoethyl]carbamoyl]-dithiosuccinate (CHETSu) was prepd., and mixed with dioleoylphosphatidylethanolamine (DOPE). A phosphorothicate backbone oligonucleotide ISIS-5132 soln. was prepd. and added to the lipids to form large multi-lamellar liposomes.

IT 300711-56-2P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(fusogenic lipids and vesicles for liposome drug delivery systems)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1992:235322 HCAPLUS

DOCUMENT NUMBER:

116:235322

TITLE:

Novel regio- and stereoselective synthesis of 6-substituted pteridines and naturally occurring

L-erythro-biopterin

AUTHOR(S):

Murata, Shizuaki; Sugimoto, Takashi; Ogiwara, Shoji;

Mogi, Kouichi; Wasada, Hiroaki

CORPORATE SOURCE:

Coll. Gen. Educ., Nagoya Univ., Nagoya, 464-01, Japan

SOURCE:

Synthesis (1992), (3), 303-8 CODEN: SYNTBF; ISSN: 0039-7881

DOCUMENT TYPE:

Journal

LANGUAGE:

English

GΙ

AB Condensation of 2,4,5-triamino-6-butoxypyrimidine with 2-formyloxiranes I (R = Me, Pr, Ph, R1 = H; R = H, R1 = Me) followed by oxidn. with iodine affords 2-amino-4-butoxy-6-(1-hydroxyalkyl)pteridines II (R2 = CHROH, Me) regioselectively. Naturally occurring L-erythro-biopterin is synthesized from (1S,2S,3S)-2-formyl-3-(1-hydroxyethyl)oxirane. The reaction proceeds via 5,6-dihydropteridine, and the mechanism is discussed with the help_of MO calcns.

IT 141191-98-2P 141271-04-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

Nguyen 10 081463 (prepn. and hydrolysis of) 141191-96-0P IT RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of) => => => fil caold FILE 'CAOLD' ENTERED AT 18:51:47 ON 31 JAN 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS) FILE COVERS 1907-1966 FILE LAST UPDATED: 01 May 1997 (19970501/UP) This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats. This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information. => => => s 116L18 0 L16

=>

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=> fil req FILE 'REGISTRY' ENTERED AT 18:51:56 ON 31 JAN 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

30 JAN 2004 HIGHEST RN 644468-14-4 STRUCTURE FILE UPDATES: DICTIONARY FILE UPDATES: 30 JAN 2004 HIGHEST RN 644468-14-4

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

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ANSWER 1 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN L16

591752-80-6 REGISTRY RN

Poly(oxy-1,2-ethanediyl), .alpha.-[2-[[(4S)-4-[[4-[[(2-amino-1,4-dihydro-4-CN oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-4-carboxy-1-

oxobutyl]amino]ethyl]-.omega.-[2-[[[(3.beta.)-cholest-5-en-3-yloxy]carbonyl]amino]ethoxy]- (9CI) (CA INDEX NAME)

(C2 H4 O)n C51 H73 N9 O8 MF

CI PMS

PCT Polyether

SR CA

CA, CAPLUS, TOXCENTER, USPATFULL LCSTN Files:

PAGE 1-A

PAGE 1-B

$$-CH_{2}- \boxed{ CH_{2}-CH_{2}-CH_{2}-NH-C-O}$$

PAGE 1-C

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1: 139:224407 REFERENCE

ANSWER 2 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN L16

RN 300711-56-2 REGISTRY

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[[16-[(3.beta.)-cholest-5-

en-3-yloxy]-11-imino-16-oxo-6,7-dithia-3,12,15-triazahexadec-1-yl]oxy]-,

26-ester with N-[4-[[(2-amino-1, 4-dihydro-4-oxo-6-

pteridinyl)methyl]amino]benzoyl]-L-.gamma.-glutamyl-N6-carboxy-L-lysine

(CA INDEX NAME)

(C2 H4 O)n C64 H97 N13 O11 S2 MF

CI **PMS**

PCT Polyether

SR CA

CA, CAPLUS, TOXCENTER, USPATFULL LC STN Files:

PAGE 1-A

PAGE 1-B

$$- (CH2)4 - NH - C - CH2 - CH2 - CH2 - CH2 - CH2 - NH - CH2 - CH2 - S - CH2 - CH$$

PAGE 1-C

PAGE 1-D

-CHMe2

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 133:301170

L16 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2004 ACS.on STN

RN 141271-04-7 REGISTRY

CN Androst-5-ene-17-carboxylic acid, 3-(acetyloxy)-, 2-(2-amino-4-butoxy-6-pteridinyl)-2-hydroxy-1-methylethyl ester, [3.beta.,17.beta.(1R,2S)]-(9CI) (CA INDEX NAME)

MF___C35_H49_N5_O6----

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS (*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 116:235322

L16 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN

RN 141191-98-2 REGISTRY

CN Androst-5-ene-17-carboxylic acid, 3-(acetyloxy)-, 2-(2-amino-4-butoxy-6-pteridinyl)-2-hydroxy-1-methylethyl ester, [3.beta.,17.beta.(1S,2R)](9CI) (CA INDEX NAME)

MF C35 H49 N5 O6

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

Nguyen 10_081463

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 116:235322

L16 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN

RN 141191-96-0 REGISTRY

CN Androst-5-ene-17-carboxylic acid, 3-(acetyloxy)-, 2-(2-amino-4-butoxy-6-pteridinyl)-2-methoxy-1-methylethyl ester, [3.beta.,17.beta.(1S)]- (9CI) (CA INDEX NAME)

MF C36 H51 N5 O6

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 116:235322